	Application No.	Applicant(s)	
•	09/833,573	FLEMING, ROGER A.	
Notice of Allowability	Examiner	Art Unit	<del></del>
	Ashali D. Datal	0454	
·	Ashok B. Patel	2154	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits in the commits of the commit	n this application. If not included unication will be mailed in due course. I	THIS nitiative
1. This communication is responsive to <u>03/13/2006</u> .		•	
2. X The allowed claim(s) is/are <u>1-5,7-17,19 and 20</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority up a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have		or (f).	
Certified copies of the priority documents have		on No	
Copies of the certified copies of the priority do     International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:	• •		the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requiremen	its ·
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OF .
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		w ( PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date	=	•	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	esit of BIOLOGICAL MAT	ERIAL must be submitted. Note the OLOGICAL MATERIAL	
, attached Examinor of Common regularing INE Comment	101(11)22.001101.01		
	•		
Attachment(s)			
1. ☑ Notice of References Cited (PTO-892)	5.  Notice of I	nformal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	08), 7. ⊠ Examiner's	/Mail Date s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	s Statement of Reasons for Allowance	
	9 Other	<u>_</u> .	
·	JOHN FOLLA	NCREE	
	SUPERVISORY POLICE	שאהבר י⊮וNER 2100	
	Arollianter - me	CIT LIUU	

Application/Control Number: 09/833,573 Page 2

Art Unit: 2154

## **DETAILED ACTION**

1. Claims 1-5, 7-17, 19 and 20 are allowed. Claims 6 and 18 are cancelled.

## **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Phillip Articola on 05/16/2006.

3. The application has been amended as follows:

In the claims:

- a. Claims 6 and 18 are cancelled.
- **b.** Claim 1. (Currently Amended) A method of performing one or more of adding and removing a process in a distributed system having a plurality of processes currently operational therein, said method comprising steps of:
  - (1) launching a probationary member in said distributed system;
- (2) establishing a plurality of communication paths between said probationary member and each of said plurality of processes, respectively, in said system;
- (3) evaluating at least one criterion for promoting said probationary member to a full member, based on information obtained from said probationary member by said each of said plurality of processes on said plurality of communication paths; and

Application/Control Number: 09/833,573

Art Unit: 2154

(4) performing one of promoting said probationary member to a full member and eliminating said probationary member based on the evaluation performed in step (3), replacing a first process in said system and promoting said probationary member to a full member in a single view change in which all processes in said system are notified of said first process being replaced and said probationary member being promoted.

wherein at least two of said plurality of processes are performed on separate processors that communicate with each other over a computer network.

c. Claim 3. (Currently Amended) The method of claim 2, wherein said step (4) further comprises steps step of:

promoting said probationary member to said full member in response to said at least

one criterion being satisfied; and

eliminating said probationary member in response to said at least one criterion not being satisfied.

- **d.** Claim 7, line 1, replace "6" with -- 1--.
- e. Claim 9. (Currently Amended) A distributed system including a plurality of processes in communication with each other, said distributed system comprising:
  - a first host capable of executing a first process of said plurality of processes;
- a second host capable of executing a second process of said plurality of processes;
  - a third host capable of executing a third process of said plurality of processes;
  - a first communication path connecting said first and second hosts, a second

Application/Control Number: 09/833,573

Art Unit: 2154

communication path connecting said first and third hosts, and a third communication path connecting said second and third hosts; wherein

said second process is a probationary member evaluated using at least one criterion for promoting said probationary member to a full member; and

said probationary member being either promoted to a full member or eliminated in a single view change in which all processes in said system are notified of said probationary member being promoted and a first process in said system being replaced, based on the evaluation using said at least one criterion for promoting said probationary member to a full member, said at least one criterion being obtained based on information output by said second host that is received on said first and third communication paths by said first and third hosts,

wherein at least two of said plurality of processes are performed on separate processors that communicate with each other over a computer network.

**f.** Claim 10. (Currently Amended) The distributed system of claim 9, wherein said system is operable to promote said probationary member to said full member in response to said at least one criterion being satisfied; and

said system is operable to eliminate said probationary member in response to said at least one criterion not being satisfied.

g. Claim 13. (Currently Amended) A computer readable medium on which is embedded a program, the program executing a method for performing one or more of adding and removing a process in a distributed system having a plurality of processes currently operational therein, said method comprising steps of

Application/Control Number: 09/833,573 Page 5

Art Unit: 2154

(1) launching a probationary member in said distributed system;

(2) establishing a plurality of communication paths between said probationary member and each of said plurality of processes currently operational in said distributed system;

- (3) evaluating at least one criterion for promoting said probationary member to a full member, based on information obtained from said probationary member by each of said plurality of processes currently operational, respectively, by way of said plurality of communication paths; and
- (4) performing one of promoting said probationary member to a full member and eliminating said probationary member replacing a first process in said system in a single view change in which all processes in said system are notified of said first process being replaced and said probationary member being promoted, based on the evaluation performed in step (3),

wherein at least two of said plurality of processes are performed on separate processors that communicate with each other over a computer network.

h. Claim 15. (Currently Amended) The computer readable medium of claim 14, wherein said step (4) in said method further comprises steps of:

promoting said probationary member to said 111 member in response to said at lest one criterion being satisfied; and

eliminating said probationary member in response to said at least one criterion not being satisfied.

i. Claim 19, line 1, replace "18" with -- 13--.

Application/Control Number: 09/833,573

Art Unit: 2154

## **REASONS FOR ALLOWANCE**

**4.** The following is an examiner's statement of reasons for allowance:

None of the prior arts of record teach or suggest evaluating at least one criterion for promoting probationary member process to a full member process based on information obtained from the probationary member process by each of plurality of processes on plurality of communication paths and based on the evaluation performed, replacing a member process in the system and promoting the probationary member process to a full member process in a single view change in which all processes in the system are notified of the member process being replaced and probationary member process being promoted, wherein at least two of plurality of processes are performed on separate processors that communicate with each other over a computer network along with other claim limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (571) 272-3972. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on (571) 272-3964. The fax phone

Application/Control Number: 09/833,573 Page 7

Art Unit: 2154

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp

JOHN FOLLANSBEE
GUPLAVISORY PATENT EXAMENTS
TECHNOLOGY CENTER 2344